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## (54) LOW LOSS OXIDE MATERIAL

## (57)Abstract:

PURPOSE: To provide Mn-Zn ferrite base low loss oxide material comprising a composition capable of diminishing defects of conventional Mn-Zn based ferrite for miniaturization and lighening weight of a power supply by changing the drive frequency of a switching power supply to high-frequency (1-5MHz) while increasing the strength by heightening density as well as greatly cutting down the core loss.

CONSTITUTION: By adding a specific amount of CaO, SiO2, V2O5, TiO2, SnO2 to the baseic composition comprising 67.1-69.6mol% of Fe2O3, 18.9-26.9mol% of MnO, and remaining ZnO, the characterisitics of the minimum value of the magnetic core loss not exceeding 500KW/m3 meeting the requirements of the frequency 1MHz-5MHz, 60-100°C and the product of frequency and the maximum induction flux density of 75000Hz.T can be obtained.

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